

**Attendance:** Vincent Salomonson, Chris Moeller, Zhengming Wan, Bill Barnes, Gerhard Meister, Gary Toller, Junqiang Sun, Liqin Tan, Hongda Chen, Roy Yi, Scott Blanchard, Brian Wenny, Elena Novakovskaia, Amit Angal, Vincent Chiang, Shri Madhavan

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### **Scheduled Agenda**

#### **Item 1: Recent L1B LUT delivery**

- Terra forward update – 5.0.6.34 (9/7/07) – m1, RVS

#### **Item 2: Instrument status**

- Terra and Aqua MODIS are in nominal operations.

#### **Item 3: MCST recent activities**

- Terra Band 27 Detector 3 Anomaly (previously reported at MsWG on 7/18/07 and 8/22/07)
  - o The gain of the detector decreased about 4% on 7/12/07 (MsGW - 7/18/07). The NEdT for this detector increased, exceeded specifications continuously for ~2 days (Aug 15-17), and then returned to its previous stable value with no observed gain change (MsWG – 8/22/07). Recently, the NEdT had a noticeable jump on 9/1/2007 and a sudden change (3 times larger than the specification) on 9/9/07. The NEdT has not returned to its previous stable value since then. The cause of this anomaly is under investigation and MCST will continue monitoring this detector.
- Chris Moeller inquired whether the band 27 detector 3 anomaly is associated with South Atlantic Anomaly (SAA). Vincent/Brian/Shri clarified that the nature of this NEdT anomaly seems to be random and cannot be attributed to the SAA alone.

#### **Item 4: Around the Table**

- Chris Moeller is still awaiting a final decision from the Atmosphere group regarding the fill vs. interpolated value. Chris Moeller also inquired about the number of RSB RVS LUT updates by MCST since launch. Does MCST monitor the change in the Earth View(EV) over a test site due to a RVS LUT update? Junqiang Sun clarified that RSB RVS LUTs were not updated frequently in the early lifetime of the instrument. However, after July 2<sup>nd</sup>, 2003 (SD door left open) significant degradation at the shorter wavelengths has prompted frequent LUT updates (typically monthly basis depending on the lunar observations) MCST also monitors the EV trending over the test sites to monitor the changes due to LUT updates. More investigation in this area in collaboration with Ocean color group is in progress.
- Gerhard Meister inquired about MCST memo regarding the non-linearity in the calibration range, and whether the documented results have any potential impacts on the current calibration. Junqiang suggested that the prelaunch measurement had large uncertainty especially for Aqua MODIS and more work would be required to estimate its impact on current calibration. Gerhard inquired about any updates for the long-term radiance change for ocean-color bands for Terra MODIS? Junqiang suggested on scheduling a meeting to discuss this issue in greater detail.
- Bill Barnes inquired whether MCST notifies the science teams whenever there is a noisy/out of family detector. Brian clarified that MCST does send a note to the science community regarding any noisy/out of family detectors.

Next Meeting: ~Sept 26, 2007